| <br>Index of Claims |          |            |          |          |              |         |              |                 |           |            |               |                              | Application No. |            |                   |           |                                 |           |                |               |           |       | Applicant(s) |                 |                     |          |  |             |          |          |           |  |
|---------------------|----------|------------|----------|----------|--------------|---------|--------------|-----------------|-----------|------------|---------------|------------------------------|-----------------|------------|-------------------|-----------|---------------------------------|-----------|----------------|---------------|-----------|-------|--------------|-----------------|---------------------|----------|--|-------------|----------|----------|-----------|--|
|                     |          |            |          |          |              |         |              |                 |           |            |               |                              | 1               | 10/090,195 |                   |           |                                 |           |                |               |           |       |              | HINZPETER ET    |                     |          |  |             |          | ΔI       |           |  |
|                     |          |            |          |          |              |         |              |                 |           |            |               |                              |                 | Examiner   |                   |           |                                 |           |                |               |           |       |              | Art Unit        |                     |          |  |             | Ϋ        | ``       | ·         |  |
|                     |          |            |          |          |              |         |              |                 |           |            |               |                              |                 | ر ا        | Maidia C. Innana  |           |                                 |           |                |               |           |       |              |                 | 0050                |          |  |             |          |          |           |  |
| <br>                |          |            |          |          |              |         |              |                 |           |            |               |                              |                 | ĮΚ         | Kaitlin S Joerger |           |                                 |           |                |               |           |       |              | ,               | 3653                |          |  |             |          |          |           |  |
|                     |          |            |          |          |              | ٦       |              | ГΤ              | /1        | h          | rour          | ıh n                         | ımaı            | al)        | $\neg$            | ſ         | Т                               |           |                |               |           |       | П            |                 |                     |          |  |             |          |          |           |  |
| √ Rejected —        |          |            |          |          |              |         |              |                 |           |            |               | (Through numera<br>Cancelled |                 |            |                   |           | N                               | Non-E     |                |               | ct        | ed    |              | Α               | Appeal              |          |  |             |          |          |           |  |
|                     |          |            |          |          |              |         |              |                 |           |            | Do atribate d |                              |                 |            |                   | İ         |                                 |           | nterferenc     |               |           |       |              |                 |                     |          |  |             | $\neg$   |          |           |  |
| = Allowed ÷         |          |            |          |          |              |         |              |                 |           | Restricted |               |                              |                 |            |                   |           | '                               | In        | teri           | er            | en        | Ce    |              | 0               | Objected            |          |  |             |          |          |           |  |
| -                   |          |            |          |          | _            |         |              |                 | late Otal |            |               |                              |                 | Date       |                   |           |                                 |           |                | .:.: <b>Г</b> |           | •     |              |                 |                     |          |  |             | _        |          |           |  |
| Cla                 | aim<br>  | 7          |          |          | Da           | ite     |              | П               | -         | Claim =    |               |                              | П               | Da         |                   | ;<br>     | $\neg \neg \dashv \blacksquare$ |           |                | Cla           | laim<br>— | Н     | Date         |                 |                     | T        |  |             |          |          |           |  |
| Final               | Original | y,         |          |          |              |         |              |                 |           |            | Final         | Original                     |                 |            |                   |           |                                 |           |                |               |           | Final | Original     |                 |                     |          |  |             |          |          |           |  |
| ΙŒ                  | ō        | (i)        |          |          |              |         |              |                 |           |            | ᄄ             | ō                            |                 |            |                   |           |                                 |           |                |               |           | Ē     | Ö            |                 |                     |          |  |             |          |          |           |  |
|                     | 1        |            |          |          | 1            |         |              |                 |           | L          |               | 51                           |                 |            |                   | ╛         |                                 |           |                |               |           |       | 101          |                 |                     |          |  |             |          |          |           |  |
|                     | 3        | -          | _        | -        | +            | +       | ┡            | $\vdash \vdash$ | _         | -          | $\dashv$      | 52<br>53                     | $\perp$         |            | $\vdash$          | -1        |                                 | -         | +              | -             |           |       | 102<br>103   | $\vdash \vdash$ |                     | +        | +  | H           |          | $\dashv$ | $\dashv$  |  |
| •                   | 4        | <i>/</i> , |          | -        | +            | +       | ╁            | $\vdash$        | $\dashv$  | ┝          | $\dashv$      | 54                           | _               | Н          | $\vdash$          | ᅱ         | $\dashv$                        | -+        | $\dashv$       | $\dashv$      |           |       | 103          | $\vdash$        | İ                   | ╁        | +  | H           | H        | 1        | ╡         |  |
|                     | 5        | V/         |          |          | 1            |         |              |                 |           |            |               | 55                           |                 |            |                   |           |                                 | $\Box$    | 1              |               |           |       | 105          |                 | 4                   |          |  |             |          |          |           |  |
|                     | 6<br>7   | <u> </u>   |          | +        | +            | +-      | ┝            | $\vdash$        | -         | -          | 1             | 56<br>57                     | -               | -          | $\vdash$          | $\dashv$  | -                               | $\dashv$  | $\dashv$       | -             |           |       | 106<br>107   | $\vdash$        | $\dashv$            |          | +-   | -           | Н        | -1       | -         |  |
|                     | 8        |            |          |          | +            |         |              |                 |           | L          |               | 58                           |                 |            |                   |           |                                 | 1         | $\perp$        |               |           |       | 108          |                 |                     |          |  |             |          |          |           |  |
|                     | 9        |            |          |          | 4            | $\perp$ |              |                 | _         | L          | _             | 59<br>60                     |                 | <u> </u>   |                   | $\dashv$  | _                               | _         | _              | _             |           |       | 109<br>110   |                 | _                   | -        | ╁  | 1           | Н        |          | $\dashv$  |  |
|                     | 10<br>11 | $\vdash$   | $\dashv$ | $\dashv$ | +            | +       | $\vdash$     | $\vdash$        | $\dashv$  | ╟          |               | 61                           | +               | $\vdash$   | $\vdash$          | ┪         | $\dashv$                        | $\dashv$  | $\dashv$       | $\dashv$      |           |       | 111          | H               | $\dashv$            | +        | +  | -           | Н        | $\dashv$ | $\dashv$  |  |
|                     | 12       |            |          |          | $\perp$      |         |              |                 |           |            |               | 62                           |                 |            |                   |           |                                 |           | 1              |               |           |       | 112          |                 | 工                   |          |  |             |          |          |           |  |
|                     | 13       | H          |          |          | +            | +-      | ├            | $\vdash$        | -         | -          |               | 63<br>64                     | +               | $\vdash$   |                   | -         |                                 |           | +              | -             |           |       | 113<br>114   | Н               | $\dashv$            | $\dashv$ | +-   | ┼           | Н        | $\dashv$ | $\dashv$  |  |
|                     | 15       |            |          |          | $\top$       | +       |              | $\Box$          |           | L          |               | 65                           |                 |            |                   |           | $\exists$                       | $\exists$ | $\pm$          |               |           |       | 115          |                 |                     |          | 1  |             |          |          |           |  |
|                     | 16       |            |          |          | 1            | _       | _            |                 | _         | L          | _             | 66                           | $\perp$         |            |                   | _         | _                               | 1         | 1              | _             |           |       | 116          |                 | -                   | -        | -  | $\vdash$    |          |          | $\dashv$  |  |
|                     | 17       |            |          | -+       | +            | +       | $\vdash$     | H               | $\dashv$  | ╟          |               | 67<br>68                     | +               | ╁╌         |                   |           | $\dashv$                        | $\dashv$  | +              | $\dashv$      |           |       | 117<br>118   |                 | $\dashv$            | +        | +  | ╁           | Н        | $\dashv$ | ᅱ         |  |
|                     | 19       |            |          |          |              |         |              |                 | <b></b>   |            |               | 69                           |                 |            |                   |           | $\Box$                          | _         |                |               |           |       | 119          |                 |                     |          | I  | L           |          |          |           |  |
| -                   | 20<br>21 |            |          |          | +            | +       | ┝            | $\vdash$        | -         | -          |               | 70<br>71                     | -               | ┼-         | $\vdash$          | ᅱ         | $\dashv$                        | +         | -              | -             |           |       | 120<br>121   | H               | +                   | +        | ╁  | ┢           | $\vdash$ |          | _         |  |
|                     | 22       | -          |          |          | $\top$       | 1       |              |                 |           |            | _             | 72                           |                 |            |                   | 廿         |                                 |           |                |               |           |       | 122          |                 |                     |          |  | Ì           |          |          |           |  |
|                     | 23       |            |          |          | _            | -       | _            |                 | _         | L          |               | 73<br>74                     | _               | <u> </u>   |                   | 4         | $\dashv$                        | $\dashv$  | $\dashv$       | 4             |           |       | 123<br>124   |                 | $\dashv$            | +        | +  | 1           |          | _        |           |  |
|                     | 24<br>25 | $\vdash$   | Н        | $\dashv$ | +            | +       | ╁╴           | H               | -         | -          |               | 75                           | +               | -          | $\vdash$          | ᅥ         | _                               | $\dashv$  | +              | -             |           |       | 125          |                 | +                   | +        | +  | 1           | $\vdash$ | $\dashv$ | ᅱ         |  |
|                     | 26       |            |          | $\Box$   |              |         |              |                 |           |            |               | 76                           |                 |            |                   |           |                                 | $\Box$    | $\perp$        |               |           |       | 126          |                 | $\Box$              |          | $\perp$  | $\sqsubset$ |          |          |           |  |
|                     | 27<br>28 | $\vdash$   | Н        |          | +            | +       | $\vdash$     | $\vdash$        | -         | $\vdash$   |               | 77<br>78                     |                 | -          | Н                 | $\dashv$  |                                 | $\dashv$  | +              | -             |           |       | 127<br>128   | Н               | +                   | ╬        | +  | ╁-          | Н        | $\dashv$ | $\dashv$  |  |
|                     | 29       |            |          |          |              |         |              |                 |           | L          |               | 79                           |                 |            |                   |           |                                 | 1         | 士              |               |           |       | 129          |                 | 士                   |          | 士  |             |          |          | $\exists$ |  |
|                     | 30       |            |          | $\dashv$ | 4            | 4       |              | $\square$       | 4         | L          |               | 80<br>81                     |                 | -          | $\vdash \vdash$   | _         | _                               | _         | +              | 4             |           |       | 130<br>131   | $\square$       | $\dashv$            | _        |  |             | $\vdash$ | _        |           |  |
| -                   | 31       | ┢          | -        | $\dashv$ | +            | ╁       | ┢            | $\vdash$        | $\dashv$  | -          |               | 82                           | -               | -          |                   | $\dashv$  |                                 | $\dashv$  | $\dashv$       | $\dashv$      |           |       | 132          | $\vdash$        | +                   | +        | +  | ╁╌          | Н        |          | ㅓ         |  |
|                     | 33       |            |          |          |              |         |              | П               |           |            |               | 83                           |                 |            |                   |           |                                 | $\Box$    | $\blacksquare$ |               |           |       | 133          |                 |                     |          |  |             | П        |          |           |  |
|                     | 34<br>35 | $\vdash$   |          | -        | -            | +       | -            | $\vdash$        | $\dashv$  | L          |               | 84<br>85                     | $\dashv$        | ╀          |                   | $\dashv$  |                                 | $\dashv$  | +              | $\dashv$      |           |       | 134<br>135   | $\vdash$        | +                   | +        | +  | -           | Н        | $\dashv$ | $\dashv$  |  |
|                     | 36       |            |          |          |              |         |              |                 |           | L          |               | 86                           |                 |            |                   |           |                                 | $\exists$ | _              |               |           |       | 136          |                 | $\pm$               |          |  |             |          |          |           |  |
|                     | 37       | _          |          | $\dashv$ | _            | 4       | I            |                 | 4         | F          |               | 87                           |                 | <u> </u>   | $\square$         |           |                                 | 4         | $\perp$        | _             |           |       | 137          | $\square$       | $\dashv$            | 4        | -  | -           | -        | _        |           |  |
|                     | 38<br>39 | $\vdash$   | H        | $\dashv$ | +            | +       | -            | $\vdash$        | -         | -          |               | 88<br>89                     | $\dashv$        | ╁          | $\vdash \vdash$   | -         | $\dashv$                        | $\dashv$  | +              | $\dashv$      |           |       | 138<br>139   | $\vdash$        | +                   | +        | +  | $\vdash$    | $\vdash$ | $\dashv$ | $\dashv$  |  |
|                     | 40       |            |          |          | $\perp$      |         |              |                 |           | L          |               | 90                           |                 |            | П                 |           |                                 | $\Box$    | $\downarrow$   | $\exists$     |           |       | 140          |                 |                     | 丰        | T  |             |          |          |           |  |
|                     | 41       |            | Н        | $\vdash$ | +            | +       | ┼            | $\vdash \vdash$ | -         | H          |               | 91<br>92                     | -               | ╀          | Н                 | $\dashv$  | $\dashv$                        | $\dashv$  | $\dashv$       | $\dashv$      |           |       | 141          | $\vdash$        | +                   | +        | +  | -           | Н        | $\dashv$ | $\dashv$  |  |
|                     | 43       |            |          |          | 土            |         |              | Ц               | <u> </u>  | L          |               | 93                           |                 |            |                   |           |                                 |           |                |               |           |       | 143          |                 |                     |          | $\perp$  |             | 口        |          |           |  |
|                     | 44       |            | $\Box$   | -I       | $\bot$       |         | $oxed{\Box}$ | $\prod$         | _         | Ę          | $\dashv$      | 94<br>95                     |                 | ļ          | П                 | $\exists$ | $\dashv$                        | $\dashv$  | 4              | 4             |           |       | 144<br>145   | П               | $\Box$              | 1        | $oldsymbol{ol}}}}}}}}}}}}}}}}}}$ | F           | П        | $\dashv$ | $\dashv$  |  |
|                     | 45<br>46 | $\vdash$   | H        | $\dashv$ | +            | -       |              | $\vdash \vdash$ | $\dashv$  | +          | -             | 96                           | $\dashv$        | $\vdash$   | $\forall$         | $\dashv$  | $\dashv$                        | $\dashv$  | +              | $\dashv$      |           |       | 145          | H               | -                   | +        | +  | $\vdash$    | H        | $\dashv$ | ᅱ         |  |
|                     | 47       |            |          | 耳        | $\downarrow$ |         |              | $\square$       | $\exists$ |            |               | 97                           | 二               | T          |                   |           |                                 |           | 1              | $\exists$     |           |       | 147          | П               |                     | $\bot$   | T  |             | П        |          |           |  |
|                     | 48       | 1          |          | oxdot    | $\perp$      | $\perp$ | ↓_           | 1_1             | _         | L          |               | 98                           | $\perp$         | _          | Ш                 | _         |                                 |           | $\perp$        | 4             |           |       | 148          | Ш               | $\perp \! \! \perp$ |          | _  | $\perp$     | Ш        |          |           |  |